

SHCHEGOLEV, A.G.

Studies on the resistance of regenerated cultures of hemolytic streptococcus to certain physical, chemical, and biological factors. Zhur, mikrobiol., epid. i immun. 30 no.11:86-90 N '59. (MIRA 13:3)

1. Iz kafedry mikrobiologii II Moskovskogo gosudarstvennogo meditsinskogo instituta imeni Pirogova.
(STREPTOCOCCUS)

SHCHEGOLEV, A.G.; PROZOROVSKIY, S.V.

L-transforming effect of penicillin on *Salmonella typhi*
murium. Antibiotiki 8 no.6:507-511 Je'63 (MIRA 17:3)

1. Kafedra mikrobiologii (zav. - prof. V.D.Timakov) II Moskov-
skogo meditsinskogo instituta imeni N.I.Pirogova.

1. The role of the immune system in the formation of tetanus in various
microbial species. Zhur. mikrobn., epid. i immn. 10
1971: 42-43. (Mikr.)

2. The role of the immune system in the formation of tetanus in various
microbial species. Zhur. mikrobn., epid. i immn. 10
1971: 42-43. (Mikr.)

3. The role of the immune system in the formation of tetanus in various
microbial species. Zhur. mikrobn., epid. i immn. 10
1971: 42-43. (Mikr.)

KAGAN, G.Ya.; YERSHOV, F.I.; SHCHEGOLEV, A.G.; FEDOROVA, G.I.; PROZOROVSKIY,
S.V.; MIKHAYLOVA, V.S.; LEVASHEV, V.S.

Some regularities in the L-form reversion of pathogenic species
of bacteria. Zhur. mikrobiol.; epid. i immun. 41 no.6:67-70
Je '64. (MIRA 18:1)

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR
i II Moskovskiy meditsinskiy institut imeni Pirogova.

KOCHEMASOVA, Z.M.; DYKHNO, M.M.; PROZOROVSKIY, S.V.; KANSIERSKAYA, N.G.;
BURMISTROVICH, S.F.; SAVENKOVA, V.T.; SHCHEGOLEV, A.G.;
STARSHINOVA, V.S.

I-form of some types of pathogenic bacteria. Vest. AMN SSSR 20
no.8:39-46 '65. (MIRA 18:9)

1. I Moskovskiy meditsinskiy institut imeni I.M. Sechenova;
Institut epidemiologii i mikrobiologii imeni N.F. Gamalei AMN
SSSR i II Moskovskiy meditsinskiy institut imeni N.I. Pirogova.

L 12813-66 EWA(1)/EWA(j)/T/EWA(b)-2 JK

ACC NR: AP5028183

SOURCE CODE: UR/0248/65/000/008/0039/0046³⁷₃₄

AUTHOR: Kochemasova, Z. N.; Dykhno, M. M.; Prozorovskiy, S. V.; Kassirskaya, N. G.;
Burnistrovich, S. F.; Savenkova, V. T.; Shchegolev, A. G.; Starshinova, V. S.

ORG: I Moscow Medical Institute im. I. M. Sechenova (I Moskovskiy meditsinskiy in-
stitut); Institute of Epidemiology and Microbiology im. N. F. Gamalei, AMN SSSR
(Institut epidemiologii i mikrobiologii AMN SSSR); II Moscow Medical Institute im.
N. I. Pirogova (II Moskovskiy meditsinskiy institut)

TITLE: L-forms of some types of pathogenic bacteria

SOURCE: AMN SSSR. Vestnik, no. 8, 1965, 39-46

TOPIC TAGS: infective disease, bacteriology, microbiology

ABSTRACT: I. L-forms of mycobacteria.^{64,55} In recent years atypical forms of mycobacteria have frequently been isolated from tubercular patients. These differ in many significant ways from normal mycobacteria, yet are similar enough to be considered as merely atypical strains. One explanation for this transformation is that the atypical microbes arise from L-forms, which are themselves formed in response to the

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UDC: 576.852.211.095.5

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ACC NR: AP5028183

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chemicals used in the treatment of tuberculosis. Several examples of just such transformations are noted in the literature. The purpose of the present study was to establish the conditions for L-transformation, to study the biological properties of the L-forms and their possible reversal to the bacterial form. One typical and one atypical strain were studied using several concentrations of dihydrostreptomycin, penicillin, or both as additives to the culture media. Cultures without antibiotics served as controls. The results (based on examination of live material and on differential staining) showed that L-forms are produced in response to both antibiotics but the optimum conditions for transformation are when both antibiotics are present together. II. L-forms of the family Corynebacteriaceae. A study of the properties of the L-form of Corynebacteriaceae were undertaken with the hope of shedding some light on the connection of these bacteria with mycoplasma. Both toxigenic and non-toxigenic cultures of diphtheria and diptheroid organisms were used. It was found that L-form colonies were formed only on media containing 3 % liver agar with 20 % normal horse serum and penicillin. A detailed morphological description of the L-colonies is given. It is noted that subculturing resulted in almost total disappearance of normal rod-shaped bacteria which were found initially with some frequency. Certain cultures were found to revert to the rod-shaped diphtheria organisms without prior removal to a penicillin-free medium. The process of transformation

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ACC NR: AP5028183

into atypical L-colonies is lengthy and requires from 2 weeks to 2-4 months. Other experiments showed that not all members of a given bacterial population are equally susceptible to transformation by penicillin in that only 5-7 strains of a 30-culture sample underwent transformation. Studies of the biochemical and cytopathogenic properties of the L-forms showed no consistent variations from those of the parent cultures. III. *L-forms of bacteria isolated from blood cultures of typhoid patients and carriers*. It has been established that L-forms can be isolated from a variety of bacterial infections; however, there is insufficient evidence on the formation of L-forms in active typhoid cases or carriers, although such transformations have been observed in this organism under laboratory conditions. To resolve this question defibrinated blood and bile of typhoid patients and carriers were cultured and examined. Of the 17 cases examined one patient and two carriers showed L-form growth in their blood cultures, while one patient had a mixture of L-forms and bacterial forms. Of particular interest was one patient whose blood originally yielded only typical *S. typhi*, but after intensive treatment with antibiotics granular elements of L-forms were isolated. This study showed that L-forms can indeed be formed in the body so now it remains to be determined what role they play in the development of the carrier condition. Orig. art. has: 4 figures.

SUB CODE: 06/ SUBM DATE: 01Jun65/ ORIG REF: 002/ OTH REF: 002

jw
Card 3/3

WYNN, J. A., REPORT J. A. I.

Tools

Two-way head for removing heads of cotter pins. Avt. tr kt. prom. No. 1, 1952.

9. MONTHLY LIST OF RUSSIAN ATOMICONS, Library of Congress, August 1952. Uncl.

SONOLOVSKIY, V.D., Marshal Sovetskogo Soyuz; BELITSKY, A.I., polkovnik;
GASPILOVICH, A.I., doktor voyennykh nauk, prof. general-polkovnik;
DENISENKO, V.K., polkovnik; ZAV'YALOV, I.G., general-mayor;
KOLECHITSKIY, V.V., general-mayor; LARIONOV, V.V., kand. voyennykh
nauk, polkovnik; LYRNOV, G.M., polkovnik; PAROT'KIN, I.V., kand.
voyennykh nauk, polkovnik; PROKHOROV, A.A., general-mayor; POPOV, A.S.,
polkovnik; SAL'NIKOV, K.I., polkovnik; SHIMANSKIY, A.M., polkovnik;
CHEREDNICHENKO, M.I., general-mayor; SHCHEGOLEV, A.I., polkovnik;
KOROZOV, B.N., polkovnik, red.; KONOVALOVA, Ye.K., tekhn. red.

[Military strategy] Voennaya strategiya. Moskva, Voenizdat, 1962.
457 p. (MIRA 15:7)

(Strategy)

ARMAGOLEV, A.I.

Investigating the sliding of the belt in a sizing ~~machinery~~ unit.
Nauch.issl.trudy IvNITI 25:183-214 '61. (MIRA 15:10)
(Textile machinery—Testing) (Sizing (Textile))

SOKOLOVSKIY, V.D., Marshal Sovetskogo Soyuz; BELIAYEV, A.I., polkovnik;
GASTILOVICH, A.I., doktor voyennykh nauk, prof. general-
polkovnik, DENISENKO, V.K., polkovnik; ZAV'YALOV, I.G.,
general-mayor; KOLECHITSKIY, V.V., general-mayor; LARIONOV,
V.V., kand. voyennykh nauk polkovnik; NIKOV, G.M., polkov-
nik; PAROT'KIN, I.V., kand. voyennykh nauk polkovnik;
PROKHOROV, A.A., general-mayor; POPOV, A.S., polkovnik;
SAL'NIKOV, K.I., polkovnik; SHIMANSKIY, A.N., polkovnik;
CHEREDNICHENKO, M.I., general-mayor; SHCHEGOLEV, A.I., pol-
kovnik; MOROZOV, B.N., polkovnik, red.; KONOVALOVA, Ye.K.,
tekhn. red.

[Military strategy] Voennaya strategiya; Izd.2., ispr. 1 dop.
Moskva, Voenizdat, 1963. 503 p. (MIRA 16:10)
(Strategy)

SHCHEGOLEV, A.I.

Technology of machine shrinking of fabrics. Nauch.-issl.trudy
IvNITI 18:177-189 '63. (MIRA 18:4)

SHCHEGOLEV, A.K. [Shchegolev, A.K.]

New finding of conifers in the upper Carboniferous of the
Donets Basin. Geol.izv. 15 no.6:47-50 '58. (MIRA 12:1)
(Donets Basin -Coniferus, Fossil)

SHCHEGOLEV, A.K. [Shchegolev, O.K.]

Boundary between the Carboniferous and Permian systems in the Donets
Basin, based on fossil flora. Geol. zhur. 20 no. 1:47-57 '60.

(MIRA 14:5)

(Donets Basin--Paleobotany, Stratigraphic)

GLUSHENKO, N.V.; IVANOV, V.K.; LAPKIN, I.Yu.; PODOBA, B.G.; SHCHEGOLEV, A.K.

Flora of the red sill in the Schwagerina strata of the Donets
Permian. Dokl.AN SSSR 145 no.1:157-159 J1 '62. (MIRA 15:7)

1. Ukrainskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta prirodnogo gaza. Predstavleno akademikom A.L.Yanshinym.
(Bakhmut region--Paleobotany, Stratigraphic)

SRCHEGOLEV, A.P., inzh.

Regulation of air flow in ship ventilation systems by means of
multiple-post hot wire anemometer. Sudostroenie 28 no.6:63-64
Je '62. (MIRA 15:6)
(Ships--Heating and ventilation) (Anemometer)

SHCHEGOLEV, A.P., inzh.

Testing and regulating ship ventilation systems by means of
diaphragms. Sudostroenie 29 no.2:58-59 F '63. (MIRA 16:2)
(Ships--Heating and ventilation) (Air flow--~~Testing~~)

SEKHOGOLEV, Aleksandr Pavlovich; ALEKSANDROV, A.V., kand. tekhn.
nauk, retsenzent; KARELIN, V.F., nauchn. red.; NIKITINA,
A.D., red.

[Testing and adjustment of ship ventilation systems] Ispytanie i nastroyka sudovykh ventilyatsionnykh sistem. Leningrad, Izd-vo "Sudostroenie," 1964. 102 p.

(MIRA 17:4)

BECHEGOLEV, A. V.

iamiatka rabochego-protiazhnika. Sverdlovsk, Mashgiz, 1942. 76 p.

Instructions for the breaching machine operator.

SC: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

ИВ, А. В.
25608

Sovremennyye Konstruktsii Prottyazhek. V So: Nekotoryye Voprosy
Tekhnologii Mashinostroeniya. M. - L., 1948, s. 19-30.

SO: LETOPIS NO. 30, 1948

SHCHEGOLEY, A. V. and L. S. MURASHKIN

Zatochnye stanki. Moskva, 1949. 167 p. diagrs.

(Tool-grinding machines.)

DLC: Tj1280.M87

SO: Manufacturing and Mechanical Engineering in the Soviet Union,
Library of Congress, 1953.

SHCHETOLEV, A.V.

Novyi krugloshifoval'nyi stanok Leningradskogo stankostroitel'nogo
z avoda i eni II'icha.
Vestn.Mash., 1951, no.4, p. 63-64.

The new circular grinding machine of the Leningrad II'ich machine-tool
construction plant.

DLC: TN4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library
of Congress, 1953.

SHCHEGOLEV, A.V.

KOSMACHEV, I.G., SHCHEGOLEV, A.V., kandidat tekhnicheskikh nauk,
retsensent; REZNITSKIY, L.M., kandidat tekhnicheskikh nauk,
redaktor; SOKOLOVA, L.V., tekhnicheskiiy redaktor

[Automatic weld deposition on a multiple-edged cutting tool]
Avtomaticheskaia naplavka mnogolezviinogo instrumenta. Moskva,
Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1952. 115 p.
[Microfilm] (MIRA 7:10)

(Cutting tools)

(Electric welding)

SHCHENOLEV, Anatoliy Vasil'evich

Academic degree of Doctor of Technical Sciences, based on his defense,
6 June 1955, in the Council of the Leningrad Polytechnic Inst imeni
Kalinin, of his dissertation entitled: "Problems of the working
of metals with cutting lathes."

Academic degree and/or title: Doctor of Sciences

DO: Decisions of VAK, List no. 24, 26 Nov 55, Byulleten' MVO SSSR, No. 20,
Oct 57, Moscow, pp 22-24, Uncl. JPRS/NY-471

SHCHEGOLEV, A.V.; PARSHIKOV, V.I.; LUKASHEV, A.A.; ZAMURIY, A.D.; KUCHER,
I.M., kandidat tekhnicheskikh nauk, dotsent, retsenzent; SHAVLYUGA,
N.I., kandidat tekhnicheskikh nauk, dotsent, redaktor; LEYKINA, T.L.,
redaktor; POL'SKAYA, R.G., tekhnicheskiiy redaktor.

[Machines for grinding spherical surfaces] Sferoshlifoval'nye stanki.
Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 114 p.
(Grinding machines) (MLRA 9:5)

SHCHENGOLEV, A. V.

TRAYFEL'D, Issay Abramovich, kandidat tekhnicheskikh nauk, dotsent;
SHCHENGOLEV, A.V., doktor tekhnicheskikh nauk, professor, retsenzent;
MOROZOV, V.D., kandidat tekhnicheskikh nauk, redaktor; SIMONOVSKIY,
N.Z., redaktor izdatel'stva; POL'SKAYA, R.G., tekhnicheskiy redaktor

[Design and construction of special tools for metal cutting; forming
tools, forming and hubbing cutters used in machining geared parts]
Raschety i konstruktsii spetsial'nogo metallovezhushchego instrumenta;
fazonnnye reztsy, fazonnnye frezy, chervlachnye frezy dlia zubchatykh
detalei. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry,
1957. 195 p. (MLRA 10:9)

(Cutting tools)

SHCHEGOLEV, A.V.

The 3A153A automatic circular-grinding machine. Biul.tekh.-
ekon.inform. no.11:33-35 '59. (MIRA 13:4)
(Grinding machines)

SHCHEGOLEV, Anatoliy Vasil'yevich; BERLINER, M.S., inzh., retsenzent;
ZHURAVLEV, S.A., dotsent, kand.tekhn.nauk, red.; BORODULINA,
I.A., red.izd-va; VARKOVETSKAYA, A.I., red.izd-va; SPERANSKAYA,
O.V., tekhn.red.

[Design and construction of broaches] Konstruirovanie protiazhek.
Izd.2., ispr. i dop. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.
lit-ry, 1960. 351 p. (MIRA 13:12)
(Broaching machinery)

PHASE I BOOK EXPLOITATION

SOV/5073

Shchegolev, Anatoliy Vasil'yevich

Konstruirovaniye protyazhek (Broach Design) 2d ed., rev. and enl.
Moscow, Mashgiz, 1960. 351 p. Errata slip inserted. 10,000
copies printed.

Reviewer: M. S. Berliner, Engineer; Ed.: S. A. Zhuravlev, Candi-
date of Technical Sciences, Docent; Eds. of Publishing House:
I. A. Borodulina, and A. I. Varkovetskaya; Tech. Ed.:
O. V. Speranskaya; Managing Ed. for Literature on Machine-Build-
ing Technology (Leningrad Department, Mashgiz): Ye. P. Naumov,
Engineer.

PURPOSE: This book is intended for the technical personnel of tool
and machine-building factories, and for process engineers, de-
signers, and other personnel concerned with cutting tools and
broaches.

COVERAGE: The author discusses problems in the design and con-
struction of various types of broaches required in advanced

Card 1/10

KUDASOV, Grigoriy Filippovich; SHCHEGOLEV, A.V., inzh., retsenzent; RYBAKOV, V.A., kand. tekhn. nauk, red.; VARKOVETSKAYA, A.I., red. izd-va; KONTOROVICH, A.I., tekhn. red.

[Abrasive materials and tools] Abrazivnye materialy i instrumenty.
Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1960. 102 p.
(Bibliotekha shlifovshchika, no.1) (MIRA 14:9)
(Abrasives) (Grinding wheels)

MUTSYANKO, Vitt Iosifovich; SHCHEGOLEV, A.V., inzh., retsenzents; KUDASOV,
G.F., kand. tekhn. nauk, red.; NIKOLAYEVA, I.D., tekhn. red.

[Abrasive grinding and lapping of metal-cutting tools] Abrazivnaya
zatochka i dovodka metallorazreshchikh instrumentov. Pod obshchei
red. G.F.Kudasova. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.
lit-ry, 1961. 84 p. (Biblioteka shlifovshchika, no.8)
(MIRA 14:12)

(Grinding and polishing) (Metal cutting tools)

SHCHEGOLEV, A.V.

The ZP157 semiautomatic flange-grinding machine. Biul.tekh.-ekon.
inform. no.7:44-45 '61. (MIRA 14:8)
(Grinding machines)

SHCHEGOLEV, A.V., inzh.; CHEKHOVOY, Yu.N., inzh.

Increase of the operational reliability of the electric motors of
remote control posts. Elek. sta. 33 no.10:85-86 0 '62.
(MIRA 16:1)

(Electric motors)

SHCHEGOLEV, A.V., inzh; CHEKHOVOY, Yu.N., inzh.

Automation of slime pumping system. Elek.sta. 33 no.11:28-32 N
'62. (MIRA 15:12)
(Electric power plants)

CHERNOMOR, Ya.N., inst.; SHCHEGOLEV, A.V., inst.

Improvement of a network for signaling the pressure of hydrogen in
the TV2-100-2 turbogenerator. Elek. sta. 32 no.2:75-76 F '61.
(MIRA 16:7)

(Turbogenerators)

SHCHEGOLEV, A.V., Engr. ADP S.

Experience in using an 100 power relay in the design of a control
type servo system. Energ. i elektronika. proc. no.2:60-61 Apr-64
'64. (MIRA 17:10)

... .., V. N., 1952

... .., Conference and Trade

... .., 1952.

4. Summary List of Russian Acquisitions, Military "Congress, June 1952. Incl.

SHCHEGOLEV, D., doktor geologo-mineral.nauk

Problems in the utilization of underground waters. NTO 7 no.3:13-15
Mr '65. (MIRA 18:5)

1. Predsedatel' organizatsionnogo komiteta Vsesoyuznogo nauchno-
tekhnicheskogo soveshchaniya po ispol'zovaniyu podzemnykh vod i
iskusstvennomu popolneniyu ikh zapasov.

SHEGOLEV D I:
CA

Seger cones. D. I. Shegolev. Russ. SO,243, Feb. 28,
1941. To make the deformation of the Seger cone more
easily visible, the cone is covered with compds. of Ce or
other materials that are luminescent at high temps.

ASH-STA METALLURGICAL LITERATURE CLASSIFICATION

AUTHOR INDEX

INDEX LETTERS

TOKAREV, Aleksey Nikolayevich; SHCHERBAKOV, Aleksandr Vladimirovich;
~~SHCHERBAKOV, D.I.~~, redaktor; ENTIN, M.L., redaktor izdatel'stva;
POPOV, N.D., tekhnicheskii redaktor

[Radio hydrogeology] Radiogidrogeologiya. Moskva, Gos. nauchno-
tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1956. 262 p.
(Water, Underground) (Radioactivity) (MLRA 10:3)

PLOTNIKOV, Nikolay Ivanovich; SYROVATKO, Mikhail Vasil'yevich; SHCHEGOLEV,
Dmitriy Ivanovich; YAKHONTOV, A.D., redaktor; SHUSTOVA, V.M.,
redaktor izdatel'stva; MIKHAILOVA, V.V., tekhnicheskii redaktor.

[Underground water in ore deposits] Podzemnye vody rudnykh mestorozh-
denii. Pod nauchnoi red. D.I.Shchegoleva. Moskva, Gos.nauchno-tekhn.
izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1957. 614 p.
(MIRA 10:11)

(Water, Underground) (Ore deposits)

PLOTNIKOV, Nikolay Ivanovich; SHCHEGOLEV, D.I., prof., doktor geol.-
miner.nauk, nauchnyy red.; YAKHONTOV, A.D., red.; SHUSTOVA,
V.M., red.izd-va; MIKHAYLOVA, V.V., tekhn.red.

[Water supply of mining enterprises; prospecting, location
and estimates of underground water supplies] Vodosnabzhenie
gornorudnykh predpriatii; poiski, razvedka i podschet za-
pasov podzemnykh vod. Pod red. D.I.Shchegoleva. Moskva, Gos.
nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1959. 528 p.
(MIRA 12:9)

(Mining engineering—Water supply)
(Water, Underground)

SEDENKO, Matvey Vasil'yevich; SHCHEGOLEV, D.I., otv. red.; KOROLEVA, T.I.,
red. izd-va; IL'INSKAYA, G.M., tekhn. red.

[Fundamentals of hydrogeology and engineering geology] Osnovy gidro-
geologii i inzhenernoi geologii. Moskva, Gos. nauchno-tekhn. izd-vo
lit-ry po gornomu delu, 1961. 219 p. (MIRA 14:7)
(Water, Underground) (Engineering geology)

DYUKOV, A.I.; SHCHEGOLEV, D.I.

Basic trends in training specialists for engineering geology.
Sov.geol. 6 no.4:155-159 Ap '63. (MIRA 16:4)

1. Redaktsionnaya kollegiya zhurnala "Sovetskaya geologiya".
(Engineering geology)

BELYAYEVSKIY, H.A., red.; ALI-ZADE, A.A., red.; ALIYEV, M.M., red.;
BAKIROV, A.A., red.; BELOUSOV, V.V., red.; BEUS, A.A., red.;
BOGDANOV, A.A., red.; BORISOV, A.A., red.; BRENNER, M.M.,
red.; DYUKOV, A.I., red.; YERSHOV, A.D., red.; ZARIDZE, G.M.,
red.; KALUGIN, A.S., red.; KOSOV, B.M., red.; KOPTEV-
DVORNIKOV, V.S., red.; KOTLYAR, V.N., red.; LUGOV, S.F., red.;
MAGAK'YAN, I.G., red.; MARINOV, N.A., red.; MARKOVSKIY, A.P.,
red.; MALINOVSKIY, F.M., red.; PUSTOVALOV, L.V., red.; SATPAYEV,
K.I., red.; SEMENENKO, N.P., red.; TYZHNOV, A.V., red.;
KHRUSHCHOV, N.A., red.; SHCHEGOLEV, D.I., red.; YARMOLYUK, V.A.,
red.

[Materials on regional tectonics of the U.S.S.R.] Materialy po
regional'noi tektonike SSSR. Moskva, Izd-vo "Nedra," 1964. 193 p.
(MIRA 17:4)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy geologicheskii ko-
mitet.

БЕД НОВ, Николай Дмитриевич; ШЧЕЛГОВ, Д.И., доктор геол.-
минер. наук, отв. ред.

[Hydrogeology of the Urals] Gidrogeologiya Urala. Mo-
skva, izd-vo "Nauka," 1964. 302 p. (MIRA 17:7)

STRAKHOV, N.M.; LANGE, O.K.; YABLOKOV, V.S.; SARYCHEVA, T.G.;
OVCHINNIKOV, A.M.; SHCHEGGLEV, D.I.; KRASHENINNIKOV, G.F.;
MENYAYLENKO, P.A.; KALEDA, G.A.; ANUFRIYEV, A.A., student

Mikhail Sergeevich Shvetsov, 1885- . Izv. vys. ucheb. zav.;
geol. i razv. 8 no.11:7-13 N '65. (MIRA 18:12)

1. Moskovskiy geologorazvedochnyy institut (for Anufriyev).

U. S. S. R. E. I. P.

Dissertation: "Utilization of Solar Energy for the Purpose of Heating Homes." Cand
tech Sci, Power Engineering Inst imeni G. I. Krzhizhanovskiy, Acad Sci USSR, 0 May 54.
Vechernyaya Moskva, Moscow, 11 May 54.

NO: 2.4, 26 Nov 1954

SHCHEGOLEV, D.M.

Heating buildings with solar energy. Ispol'.soln.energ. no.1:124-135
'57. (MIRA 10:11)
(Solar heating)

82687

S/123/60/000/003/016/017
AC04/A001

3.1540

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1960, No. 8, p. 295.
39562

AUTHOR: Shchegolev, D.M.

TITLE: Steam Boiler for a Solar Power Station

PERIODICAL: V sb.: Teploenergetika, No. 1, Moscow, AN SSSR, 1959, pp. 70-78

TEXT: The author presents the calculation methods for the steam boiler of the first solar power station of 15 t/hr steam capacity with the steam parameters of 30 at and 410°C. The peculiar feature of the boiler consists in the fact that it is mounted 35 m above the ground and rotates around a vertical axis with an average angular speed of 15°/hr. The boiler converts solar energy concentrated by the mirrors of the reflection installation. The author presents a description of the boiler design and the system of its automatic control. The efficiency of the boiler is 90.2-92.8%.

Translator's note: This is the full translation of the original Russian abstract.

Z.B.Ya.

Card 1/1

1. Introduction (Cont.)

SOV/4642

determining the operational indices of solar engines, depending upon the amount of solar energy received, are analyzed. No personalities are mentioned. References follow each article.

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JA/dwm/sfm
2/6/61

S/030/61/000/001/017/017
B105/B206

AUTHOR: Shchegolev, D. M.

TITLE: Development of helic-engineering

PERIODICAL: Vestnik Akademii nauk SSSR, no. 1, 1961, 122-123

TEXT: New heliolaboratories were established at the Akademiya nauk Armyanskoy SSR (Academy of Sciences of the Armyanskaya SSR), Akademiya nauk Gruzinskoy SSR (Academy of Sciences of the Gruzinskaya SSR), Akademiya nauk Turkmenskoy SSR (Academy of Sciences of the Turkmenskaya SSR), and Akademiya nauk Uzbekskoy SSR (Academy of Sciences of the Uzbekskaya SSR) and the corresponding departments were linked with these institutes. Helio-commissions were established at the GNTK (Gosudarstvennyy nauchno-tekhnicheskiy Komitet (State Scientific Technical Committee)) of the soveti ministrov (Councils of Ministers) of these Republics and the RSFSR. A similar Commission was established at the Gosudarstvennyy komitet Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu (State Committee for Automation and Machine Building of the Council of Ministers USSR). Comprehensive research activities

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Development of helio-engineering

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are conducted at the heliolaboratories of the Energeticheskiy institut im. G. M. Krzhizhanovskogo Akademii nauk SSSR (Power Engineering Institute imeni G. M. Krzhizhanovskiy of the Academy of Sciences USSR), Vsesoyuznyy institut istochnikov toka (All-Union Institute of Power Sources), and Institut khimii Sovnarkhcz Armyanskoy SSR (Institute of Chemistry of the Sovnarkhcz of the Armyanskaya SSR). The activities of the individual laboratories are specialized as follows: Academy of Sciences of the Uzbekskaya SSR: transformation of solar energy into electric energy by means of semiconductor material as well as studies with solar furnaces for high temperatures. Academy of Sciences of the Armyanskaya SSR: Problems of automation of solar installations and construction of a prototype laboratory solar furnace. Academy of Sciences of the Gruzinskaya SSR: Study of problems of solar heating and hot-water supply. Academy of Sciences of the Turkmenskaya SSR: Application of solar energy for refrigeration and desalting of mineralized water. At the heliolaboratory of the Power Engineering Institute: Application of semiconductor materials in helio-engineering and study of the main physical processes, determining the characteristic values of solar installations. A Coordination Meeting was held in

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Development of helio-engineering

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Tashkent from October 5 to 8, 1960, which was actually a Scientific Conference on Helio-engineering. The Conference discussed the results of studies conducted, and laid down the main trends for further research. The following matters were discussed among others: theoretical reports on the transformation of solar energy by means of mono- and polycrystalline silicon photoelements as well as semiconductor thermocouples; results of physical investigations, the apparatus used, especially thermal ion converters; practical means to increase the efficiency of thermo- and photo solar batteries through concentrated solar radiation and the design of such converters; the possibilities and prospects of the application of solar energy for the acceleration of aging experiments with insulation materials; methods for the thermodynamic calculation of some solar installations of the sun. The construction of a solar furnace with a diameter of from 15 to 20 m for the investigation of heat-resistant alloys and ceramics at high temperatures was found to be necessary. This furnace is to be erected at the Fiziko-tehnicheskii institut Akademii nauk Uzbekskoy SSR (Physicotechnical Institute of the Academy of Sciences Uzbekskaya SSR). The suitability of constructing a solar caloric power station was confirmed. The Conference underlined

Card 3/4

L 30079-66 EWT(1)

ACC NR: APO20630

SOURCE CODE: UR/0377/65/000/005/0005/0010

AUTHOR: Akchurin, R. Kh.; Aparisi, R. R.; Kolos, Ya. G.; Teplyakov, D. I.;
Shatov, N. I.; Shchegolev, D. M. (Deceased)

30
B

ORG: State Scientific-Research Power Engineering Institute im. G. M. Krzhizhanovskiy
(Gosudarstvennyy nauchno-issledovatel'skiy energeticheskiy institut)

TITLE: Two-mirror solar stand of the ENIN

SOURCE: Geliotekhnika, no. 5, 1965, 5-10

TOPIC TAGS: photoelectric detection equipment, actinometry

ABSTRACT: A combined two-mirror heliostat-containing solar stand was constructed in 1961-1962 at the testing area of the ENIN. The paper gives a detailed engineering description of the stand as a whole and of its various components (the mirrors, heliostat, reducing gears, photoelectric tracking sensors, vacuum system, and actinometric mechanism). The stand is presently in satisfactory operation. [The specific uses and results are not given.] Orig. art. has: 7 figures. [JPRS]

SUB CODE: 03, 09 / SUBM DATE: 13Jan65 / ORIG REF: 003

Card 1/1

D. Ye.
MARKOV, A.V.; SHCHEGOLEV, D.Ye.

Possible periodicity in change in brightness in the penumbra of lunar
eclipses. Izv. Glav. astron. obser. 19 no. 4:34-44 '53. (MIRA 8:7)
(Eclipses, Lunar)

Shchegolev, D. Ye.

USSR/ Astronomy - Outer-galactic nebulae

Card 1/1 Pub. 8 - 2/13

Authors : Shchegolev, D. Ye.

Title : Photographic photometry and colorimetry of outer galactic nebulae

Periodical : Astron. zhur. 32/1, 16-21, Jan-Feb 1955

Abstract : Work, accomplished at the Pulkovo observatory in 1951-1953 is briefly described. The work consisted in determining the absolute values of brightnesses and colors of 15 outer galactic nebulae of the Sb and Sc types, namely: NGS 224, 598, 3031, 3623, 3627, 3628, 4192, 4217, 4254, 4258, 4321, 4565, 4631, 5194, 5457. The photographic method was used during this work. Six references: 3 USSR, 1 French, 1 Belg. (1933-1952). Graphs .

Institution : Acad. of Scs., USSR, Main Observatory

Submitted : February 6, 1954

SHCHEGOLEV, D.Ye.

Photometric investigation of 15 spiral galaxies. Izv.GAO
20 no.3:87-109 '56. (MIRA 13:5)
(Galaxies)

SHCHEGOLEV, D.Ye.

Photographic integrator, an instrument for determining the brilliance of bright expanded objects, and its use. Izv.GAO 20
no.3:123-125 '56. (MIRA 13:5)
(Astronomical instruments)

SHCHEGOLEV, D.Ye.

Photoelectric colorimetry of Mars. Astron. tsirk. no.175:5-6 D '56.
(MIRA 10:5)

1. Glavnaya astronomicheskaya observatoriia AN SSSR.
(Mars (Planet))

POLOZHENTSEVA, T.A.; SHCHEGOLEV, D.Ye.

Photographic photometry of the penumbra of the lunar eclipse of
November 29, 1955. Astron. tsir. no.177:10 F '57. (MLRA 10:6)
(Eclipses, Lunar--1955)

SHCHEGOLEV, D.

Arend-Roland's comet. Astron. tsir. no.180:18 My '57.
(MIRA 13:4)

(Comets--1956)

SHCHEGOLEV, D.

Approximate precalculation of ephemerides of artificial satellites.

Astron. tsir. no.191:8-9 My '58.

(MIRA 11:9)

(Artificial satellites) (Ephemerides)

SHCHEGOLEV, D.Ye.

Atmospheric transparency in Pulkovo. Izv. GAO 21 no. 3:104-108
'58. (MIRA 13:4)
(Pulkovo--Atmospheric transparency)

PHASE I BOOK EXPLOITATION SOV/5975

Akademiya nauk SSSR. Astronomicheskii sovet.

Byulleten' stantsiy opticheskogo nablyudeniya iskusstvennykh sputnikov Zemli, no. 6. (Bulletin of the Stations for Optical Observation of Artificial Earth Satellites. No. 6) Moscow, 1959. 23 p. 500 copies printed.

Sponsoring Agency: Astronomicheskii sovet Akademii nauk SSSR.

Resp. Ed.: Ye. Z. Gindin; Secretary: O. A. Severnaya.

PURPOSE : This bulletin is intended for scientists and engineers concerned with optical tracking of artificial satellites.

COVERAGE : The bulletin contains 9 articles which present the results of satellite observations, and describe methods and specific equipment used for photographic observation of earth satellites. An appendix contains a listing of 84 Soviet satellite observation stations with station number. No personalities

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Bulletin of the Stations (Cont.)

SC7/5575

are mentioned. There are no references.

TABLE OF CONTENTS:

Panova, G. V., T. Ye. Syshchenko, B. A. Firago, and D. Ye. Shchegolev [Glavnaya (Pulkovskaya) Astronomicheskaya observatoriya AN SSSR - Main (Pulkovo) Astronomic Observatory of the Academy of Sciences of the USSR]. Observations of the Second Artificial Earth Satellite (1957 β) at Station No. 039 (Pulkovo) (Observations: B. A. Firago, D. D. Polozhentsev, G. V. Panova, N. M. Bronnikova. Measurements and Calculations: T. Ye. Syshchenko, G. V. Panova, D. Ye. Shchegolev, B. A. Firago, and T. P. Kiseleva) 1

Lengauer, G. G. [Main (Pulkovo) Astronomic Observatory of the Academy of Sciences of the USSR]. On Methods for Precise Photographic Determinations of the Positions of Artificial Earth Satellites 6

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of Chile]. On the Illumination of an Artificial Satellite 16

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lites 18

a. Urasin, L. A., S. L. Andriyevskaya, L. K. Kolikova, and
Kh. Shakirova [Astronomicheskaya observatoriya im. Engel'-
gardta, Kazan'-Astronomic Observatory inani Engel'gardt, Kazan'] 19

b. Kalikhevich, F. F., and T. Ya. Ivakina [Nikolayevskoye
otdeleniye GAO AN SSSR - Nikolayevsk Department of the
Main Astronomical Observatory of the Academy of Sciences

Card 4/6

Bulletin of the Stations (Cont.)

SOV/5575

- of the USSR]
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- c. Kalikhevich, F. F. Corrections of the Universal Time of Photographic Satellite Observations in the Above Department, Published in the Bulletin of Optical Satellite Tracking Stations No. 2
20
- d. Klimishin, I. A. [Head of the Tracking Station of the Astronomical Observatory of the L'vov State University imeni I. Franko] [Astronomicheskaya observatoriya L'vovskogo gosuniversiteta im. I. Franko. Astronomic Observatory of L'vov University im. I. Franko] (Methods used: Deych and Kayzer. Observers: K. F. Vavrinyuk, I. V. Shpichka, L. F. Lutsiv-Shumskiy. Measurements: A. A. Kopystyanskiy, and L. F. Lutsiv-Shumskiy.)
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- e. Bratlychuk, M. V. [Head of the Tracking Station, Uzhgored State University] [Uzhgorodskiy gosuniversitet - Uzhgorod University.] (Calculator: Shvalagin)
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- f. Russo, Yu. D., and P. I. Chuprina. Odessa Astronomical Observatory. (Methods used: Deych and Tsesevich. Observer: V. V. Grek)
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Bulletin of the Stations (Cont.)

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APPENDIXES

- I. Artificial earth satellite observations by Soviet stations
- II. Artificial earth satellite observations by stations abroad

AVAILABLE: Library of Congress

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AC/dwn/jw
11-2-61

82479

S/035/60/000/04/16/017

AOO1/AOO1

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1960, No. 4,
p. 71, # 3393

3.1230 3.2300
AUTHORS: Panova, G. V., Syshchenko, T. Ye., Firago, B. A., Shchegolev, D. Ye.

TITLE: Observations of the Second Earth's Artificial Satellite^V (1957 β) at
Station No. 039 (Pulkovo)

PERIODICAL: Byul. st. optich. nablyudeniya iskusstv. sputnikov Zemli, 1959, No.
6, pp. 1-5 (English summary)

TEXT: Results of observations and processing of photographs taken with two
standard cameras are described in detail. Coordinates were determined by the
method of A. A. Kiselev and partially by A. N. Deych's method. One "node" point
was obtained from one negative relative to which coordinates and time were inter-
polated several times. The following factors were taken into account: diurnal
rotation of the sky, refractional parallax of the sputnik, systematic errors in
measuring the edge of the sputnik track, track curvature and sputnik acceleration.
Relative time instants were reduced to the standard time of the USSR with λ

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S/035/60/000/04/16/017

A001/A001

Observations of the Second Earth's Artificial Satellite (1957 β) at Station
No. 039 (Pulkovo)

allowance for the lag of the camera, chronograph and other units of the equipment, the run and corrections of the printing chronograph and quartz clock. Astrographic coordinates of the node points (68 in total) are published for the epoch of 1950.0; other data include: instant in the system of standard time and universal approximately-uniform time TU_2 , angular velocity and position angle of the sputnik motion, and some other data. The accuracy of the published time instant is characterized by the root-mean-square error of $\pm 0.005^s$; the inner (in distinction from the error of instants) accuracy of coordinates is $\pm 0.2^s$ sec δ and $\pm 3''$.

B. A. Firago

Card 2/2

OMAROV, T.B.; PANOVA, G.V.; SYSHCHENKO, T.Ye.; FIRAGO, B.A.; SHCHEGOLEV,
D.Ye.; LIYGANT, M.; SAVRUKHIN, A.P.

Results of photographic observations of artificial satellites.
Biul.sta.opt.nabl.isk.sput.Zem. no.10:17-24 '59.
(MIRA 13:3)

1. Astrofizicheskiy institut AN KazSSR (for Omarov). 2. Glavnaya
astronomicheskaya (Pulkovskaya) observatoriya AN SSSR (for Panova,
Syshchenko, Firago, Shchegolev). 3. Nachal'nik stantsii nablyudeni-
ya iskusstvennykh sputnikov Zemli, Institut fiziki i geofiziki AN
Tadzhiskoy SSR (for Savruxhin). 4. Nachal'nik stantsii Tartusskogo
gosudarstvennogo universiteta (for Liygant).
(Artificial satellites--Tracking)

SHCHEGOLEV, Ye., BREYDO, I. I.

"A Map-Scheme of the Reverse Side of the Moon."

paper presented at IAU Symposium on the Moon, Leningrad, USSR, 6-8 Dec 60.

(1) The photographs of the reverse side of the Moon were reduced independently at the Pulkovo Observatory. The details were revealed by the projection method and only the most reliable formations noted. A map-scheme of the distribution ~~maps~~ of dark and bright objects, containing 107 details, was compiled.

(2) The comparison of the eastern region of the scheme with photographs and maps of the visible side of the Moon showed a high degree of reliability of detection of regions with low albedo which differs from that of the surroundings (maria, flooded ring mountains, ray systems). The detection of details of the relief is exceedingly difficult.

PHASE I BOOK EXPLOITATION

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9

Akademiya nauk SSSR. Astronomicheskii sovet

Bulleten' stantsiy opticheskogo nablyudeniya iskusstvennykh sputnikov Zemli.
no. 1 (11) (Academy of Sciences of the USSR. Astronomical Council. Bulletin
of the Stations for Optical Observation of Artificial Earth Satellites. No. 1
(11)) Moscow, 1960. 22 p. 500 copies printed.

Sponsoring Agency: Astronomicheskii sovet Akademii nauk SSSR.

Resp. Ed.: Ye. Z. Gindin; Ed.: D. Ye. Shchegolev; Secretary: O.A. Severnaya.

PURPOSE: This bulletin is intended for scientists and engineers concerned with
optical tracking of artificial satellites.

COVERAGE: This bulletin contains short articles on optical equipment, techniques,
and results of observations of artificial earth satellites. Also covered are
the precision of satellite photography and the equations of motion of satellites.
No personalities are mentioned. There are no references.

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Academy of Sciences (Cont.)

SOV/5570

Mordukhai, V.A. [Novosibirsk Artificial Satellite Observation Station]. Protective Cap for the Mirror of the AT-1 Theodolite	8
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Results of Photographic Observations of Artificial Earth Satellites:	14
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b) Chuprina, A.I., and L.A. Klepikova [Staff Members of the Astronomical Council, AS USSR]. Odessa Astronomical Observatory	18

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FIRAGO, B.A.; SHCHEGOLIV, D.Ye.

Precision in the rapid processing of photographs of artificial
earth satellites. Biul.sta.opt.nabl.isk.sput.Zem. no.1:9-10
'60. (MIRA 13:5)

1. Glavnaya (Pulkovskaya) astronomicheskaya observatoriya.
(Artificial satellites--Tracking)

KISELEV, A.A.; FIRAGO, B.A.; SHCHEGOLEV, D.Ye.

Instructions for determining the coordinates of artificial
earth satellites from photographs obtained with the NAFA-3s/25-S
cameras. Biul.sta.opt.nabl.isk.sput.Zem. no.3:1-35 '60. (MIRA 13:7)

1. Sotrudniki Glavnoy astronomicheskoy observatorii AN SSSR.
(Artificial satellites--Tracking)
(Astronomical photography)

SHCHEGOLEV, D. Ye. and BREYDO, I. I.

Schematic Chart of the Far Side of the Moon.

report presented at the International Symposium on the moon, held at the Pulkovo Observatory, Leningrad, USSR, 6-8 Dec 1960.

SYSHCHENKO, T.Ye.; FIRAGO, B.A.; SHCHEGOLEV, D.Ye.; NEVEL'SKIY, A.V.,
mladshiy nauchnyy sotrudnik; KIRICHENKO, A.G., vychislitel';
BRATIYCHUK, M.V.; MAKSYUTOV, mladshiy nauchnyy sotrudnik;
KALIKHEVICH, F.F., mladshiy nauchnyy sotrudnik; IVAKINA, T.Ya.,
laborant; KLEPESHTA, I.; RAYKHL, R.; VRATNIK, A.

Results of photographic observations of artificial earth
satellites. Biul.sta.opt.nabl.isk.sput Zem. no.4:17-23 '60.

(MIRA 13:11)

1. Glavnaya (Pulkovskaya) astronomicheskaya observatoriya AN SSSR
(for Syshchenko, Firago, Shchegolev). 2. Astrosovet AN SSSR (for
Nevel'skiy). 3. Nachal'nik stantsii opticheskikh nablyudeniy
iskusstvennykh sputnikov Zemli, Uzhgorod (for Bratiychuk).
4. Stantsiya opticheskikh nablyudeniy iskusstvennogo sputnika
Zemli, Uzhgorod (for Kirichenko). 5. Astronomicheskaya observatoriya
im.Engel'gardta, Kazan' (for Maksyutov). 6. Nikolayevskoye
otdeleniye Glavnoy astronomicheskoy observatoriya v Prage,
Chekhoslovakiya (for Klepeshta, Raykhl, Vratnik).

(Artificial satellites--Tracking)

LOGVINENKO, A.A.; PLUZHNIKOV, V.Kh.; PANOVA, G.V.; SYSHCHENKO, T.Ye.;
FIRAGO, B.A.; SHCHEGOLEV, D.Ye.; NEVEL'SKIY, A.V., nauchnyy sotrudnik

Results of photographic observations of artificial earth satellites.
Biul.sta.opt.nabl.isk.sput.Zem. no.11:20-28 '60. (MIRA 14:12)

1. Nachal'nik stantsii nablyudeniya iskusstvennykh sputnikov Zemli
No.031 (for Logvinenko). 2. Nachal'nik stantsii nablyudeny iskus-
stvennykh sputnikov Zemli No.60 (for Pluzhnikov). 3. Glavnaya
(Pulkovskaya) astronomicheskaya observatoriya AN SSSR (for Panova,
Syshchenko, Firago, Shchegolev). 4. Astronomicheskaya observatoriya
Ural'skogo gosudarstvennogo universiteta (for Nevel'skiy).
(Artificial satellites--Optical observations)
(Astronomical photography)

S/560/61/000/009/001/009
D045/D114

AUTHORS: Breydo, I. I., Markelova, A. A., and Shchegolev, D. Ye.

TITLE: The identification of authentic objects on the Moon's far side
by the first photographs taken of this side

SOURCE: Akademiya nauk SSSR. Iskusstvennyye sputniki Zemli. No. 9,
Moscow, 1961, 30-40

TEXT: The study was conducted to identify authentic details on the first photographs of the Moon's far side taken on October 7, 1959 by the automatic interplanetary station, to determine their selenographic coordinates, and on this basis to compile a map of the Moon's far side with an approximate distribution of the brightness of the revealed details. For this purpose, contact positives from negatives obtained by telerecording pictures of the Moon's far side, double-negatives obtained from the same negatives, and prints of pictures obtained from a magnetic tape were used. These prints were enlarged approximately 10 times. Lenses with focal lengths of 200 and 500 mm had been used for taking the pictures. The coordinates of

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D045/D114

The identification of authentic objects ...

The details of the lunar surface were determined by using the known coordinates of the automatic station at the moment of photographing, and calculation and tracing a network of selenographic coordinates in the external perspective projection. The terminator line, calculated according to the selenographic coordinates of the Sun at the moment of observation, was plotted onto the network, and the angle of phase determined. The network copied and printed on diapositive plates was superimposed on a set of prints designed for determining the coordinates of the details of the Moon's far side. The diameter of the Moon's disk on these prints was 20 cm. A map-chart of the Moon's far side showing the approximate distribution of brightness of the revealed details is included. It is accompanied by a table in which all objects and details marked on the map are described as to their color and form. The map-chart was compared with maps and atlases of the visible side of the Moon and the border zones on the chart with photographs contained in the atlas of the Likskaya observatoriya (Likskaya Observatory). Since almost all the details plotted on the map-chart actually seemed to exist, it was assumed that the objects on the Moon's far side, plotted on the map-chart according to photographs taken by the automatic station, were authentic.

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The identification of authentic objects ...

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Since the Moon, at the moment of photographing, was almost in its full phase, a larger part of the observed formations is distinguished from the surrounding area by its albedo. Therefore, the map-chart of the Moon's far side should be regarded as a chart of areas with different reflectivity and not as a relief map. Kh. I. Potter and T. A. Polozhentseva are thanked for assistance in calculating coordinate data. There are 2 figures, 3 tables and 3 references: 1 Soviet-bloc and 2 non-Soviet-bloc. The English-language reference is: H. P. Wilkins, P. Moore, The Moon, L., 1955. ✓

SUBMITTED: January 21, 1961

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S/560/61/000/009/003/009
D045/D114

3,2500 (1080)

AUTHORS: Markov, A. V., and Shchegolev, D. Ye.

TITLE: An attempt at photometrically studying the nature of details on the surface of the Moon's far side

SOURCE: Akademiya nauk SSSR. Iskusstvennyye sputniki Zemli. No. 9, Moscow, 1961, 48-51

TEXT: A photometrical study of pictures of the Moon's far side, taken from the Avtomaticheskaya mezplanetnaya stantsiya (Automatic Interplanetary Station) (AMS), is conducted. The main task was to establish whether there is a diminution in brightness towards the edge of the photographed disk. In P. V. Makovetskiy's opinion, (Ref. 4: Astron. zh., 36, 487, 1959) the degree of brightness on the far side of the Moon should diminish towards the edges of the disk in view of reduced meteoric bombardment and less pitting on the surface. In order to verify this opinion, the authors measured a set of pictures diametrically, perpendicular to and along the "equator of intensity" and the TV scanning lines. A certain amount of darkening towards the

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An attempt at photometrically studying ...

edge of the disk was observed only in the direction of the scanning band. This effect, apparently, was caused by the TV equipment. In other directions, no such diminution in brightness was observed. Therefore, it seems that the amount of pitting on both sides of the Moon is essentially the same. In this connection, the authors assumed that the brightness of details in the border zone observed, both from the Earth and the AMS at identical phase angles, are the same, and that these details may be used as an approximate calibrating scale. The brightness and reflecting power of details on the Moon's far side and in the border zone, calculated by the authors, are given in a table. The obtained values are highly approximate in view of considerable local distortions in density and the inadequacy of the calibrating scale. Nevertheless, the following preliminary conclusions can be made on the nature of certain formations on the Moon's far side: (1) The Sea of Moscow, the Border Sea, the Mare Smythii and eastern parts of the Mare Humboldtianum and the Southern Sea are typical marine depressions; in the area of the Border Sea and the Southern Sea there are many small, circular depressions similar to submerged craters with a dark floor. The western parts of the Mare Humboldtianum and the Southern Sea are somewhat brighter. The brightness of the Sea of Dreams is still greater and is not less

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D045/D114

An attempt at photometrically studying ...

than that of the lunar marshes. However, there may have been an instrumental error, leading to a reduction in the brightness of the given area; (2) the floor of Tsiolkovskiy's crater is darker than the darkest craters and seas - an unusual phenomenon which requires further checking; (3) a wide area with dark-gray and light-gray parts, located between the Mare Smythii and the Sovetskiy mountain range, in reflecting power is similar to a continent of average brightness with a predominance of marshes, semi-submerged craters and craters of the Ptolemaeus and Petavius types; (4) a light area near the north pole, stretching beyond the Sea of Moscow, is similar to a light continental shield encircling the crater Tycho and covered by many ring-shaped mountains; (5) the Giordano Bruno crater and the Sovetskiy mountain range are similar in reflecting power to the ray systems of Tycho and Copernicus. Considering that light bands similar to rays are emitted from them, it can be assumed that these areas are also groups of centers of ray systems; (6) judging by the results of the photo-measurements, it can be assumed that there is no essential difference between the two sides of the Moon as regards reflectivity and pitting. N. F. Kuprevich and V. A. Fedorets are

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mentioned. There are 1 figure, 2 tables and 7 references: 6 Soviet-bloc
and 1 non-Soviet-bloc.

SUBMITTED: February 25, 1961

Card 1/4

PANOVA, G.V.; FIRAGO, B.A.; SHCHEGOLEV, D.Ye.

Synchronized observations of the ~~American~~ satellite "Echo -I";
preliminary results. Biul. sta. opt. nabl. isk. sput. Zem.
no.30:3-5 '62. (MIRA 16:6)

1. Glavnaya (Pulkovskaya) astronomicheskaya observatoriya
AN SSSR.

(Artificial satellites—Tracking)

VEYSIG, G.S.; SHCHEGOLEV, D.Ye.

Noncontact control of a recording chronograph. Biul. sta.
opt. nabl. isk. sput. Zem. no.30:10-11 '62.

(MIRA 16:6)

1. Glavnaya astronomicheskaya (Pulkovskaya) observatoriya
AN SSSR.

(Chronograph)

L 26625-65 EMT(d)/FSF(h)/EMT(1)/FS(v)-3/EEG(k)-2/EWA(c)/EED-2/EMP(1) Pm-4/Po-4/
 ACCESSION NR: AR5003638 Pq-4/Pac-4/Pg-4/Pae-2/Pk-4 S/0270/64/000/011/0007/0007
 IJP(c) AST/BB/GG/GW

SOURCE: Ref. zh. Geodeziya. Otd. vyp., Abs. 11.52.58

AUTHORS: Shchegolev, D. Ye.

TITLE: Geometrical method of processing the results of observations of artificial satellites for purposes of cosmic triangulation

CITED SOURCE: Byul. st. optich. nablyudeniya iskusstv. sputnikov Zemli, spets. vyp., 1962, 40-45

TOPIC TAGS: satellite observation, satellite motion, satellite reconnaissance, satellite data analysis

TRANSLATION: A proposed method of processing synchronous observations of artificial earth satellites from several points on the earth's surface is described. It is assumed that the coordinates of some of the points (not less than 2) are known relative to an initial reference ellipsoid, and that the coordinates of the remaining points are subject to determination. An equation is set up for the

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ACCESSION NR: AR5003638

sight line between the observer and the satellite in a three-dimensional coordinate system that is connected to the earth. Simultaneous solution of the equations for straight lines pertaining to different stations with known coordinates makes it possible to determine the spatial coordinates of the satellites. From the equations for the other stations one then determines the coordinates of these stations. It is pointed out that it is possible to use observations that are not strictly synchronous or observations that are not fixed exactly in a time scale that is the same for all the stations. In this case one includes in the data reduction two visible positions of the satellite, separated by an interval during which its motion can be assumed to be linear. It is indicated that account must be taken of the motion of the pole when calculating the spatial coordinates of the stations on the reference ellipsoid. Kh. Potter.

SUB CODE: SV

ENCL: 00

Card 2/2

MIKHAYLOV, A.A., otv. red.; DADAYEV, A.N., red.; VASIL'YEVA, L.M., red.; KAYDANOVSKIY, N.L., red.; MARKOV, A.V., red.; POTTER, Kh.I., red.; SHCHEGOLEV, D.Ye., red.; SMIRNOVA, M.Ye., red. izd-va; KONDRAT'YEVA, M.N., tekhn. red.

[New developments in lunar studies] Novoe o Lune; doklady i soobshchenia na.... Moskva, Izd-vo Akad. nauk SSSR, 1963. 426 p. (MIRA 16:5)

1. Mezhdunarodnyy simpozium po issledovaniyu luny, Pulkovo, 1960. 2. Glavnaya astronomicheskaya observatoriya Akademii nauk SSSR, Pulkovo (for Mikhaylov, Kaydanovskiy, Markov, Potter, Shchegolev). 3. Chlen-korrespondent Akademii nauk SSSR (for Mikhaylov). (Moon)

L 25608-65 EED-2/EEQ-2/EEC(k)-2/ENG(v)/EWT(d)/EWT(l)/FBD/FS(v)-3/T-2/FSF(h)/EWA(d)/
EEC(c)-2/ESS-2 Pe-5/Pg-4/P1-4/Pk-4/P1-4/Pn-4/Po-4/Pq-4/Pac-4/Pae-2 TT/GH/WR
ACCESSION NR: AT5003770 S/2816/63/000/036/0021/0022

75
68
B+1

AUTHOR: Shchegolev, D. Ye. (Pulkovo) (Coordinator)

TITLE: Synchronous observations of Echo-I in 1963

SOURCE: AN SSSR. Astronomicheskii sovet. Byulleten' stantsiy opticheskogo
nablyudeniya iskusstvennykh sputnikov Zemli, no. 36, 1963, 21-22

TOPIC TAGS: artificial satellite, satellite tracking camera, satellite track
analysis

ABSTRACT: The Academy of Sciences of the socialist countries resolved in November 1962 to make synchronous observations on Echo-I. Such observations were made in May and June 1963. A single program was set up for all stations, and a computing center began sending out ephemeris telegrams. Observations began on May 22 and continued to June 29. Photographic observations were made in East Germany, Poland, Rumania, the Soviet Union, and Czechoslovakia. More than a thousand synchronous negatives were obtained. Stations were also set up in Siberia, Central Asia, the Far East, and other parts of the Soviet Union. Synchronous pairs were obtained for stations separated by over 5000 km (Alma-Ata and Yuzhno-Kuril'sk). Results of these observations are now being processed. Orig. art. has: 2 figures.

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L 25608-65
ACCESSION NR: AT5003770

ASSOCIATION: none

SUBMITTED: 20Nov63

ENCL: 00

SUB CODE: AA, SV

NO REF SOV: 001

OTHER: 000

Card 2/2

KOLESNIKOVA, A.A.; KOSTYUK, N.G.; CHERNOMUROVA, V.M.; SHCHEGOLEV,
D.Ye.; LOTYSHEV, I.P., red.

[Gelendzhik and its surroundings] Gelendzhik i ego okre-
stnosti. Krasnodar, Krasnodarskoe knizhnoe izd-vo, 1964.
78 p. (MIRA 18:1)

ACCESSION NR: AP4043144

S/0030/64/000/007/0074/0077

AUTHORS: Shchegolev, D. Ye.; Masevich, A. G.; Afanas'yev, B. G

TITLE: Synchronous observations of the artificial earth satellite "Echo 1" for geodesic purposes

SOURCE: AN SSSR, Vestnik, no. 7, 1964, 74-77

TOPIC TAGS: satellite Echo 1, artificial earth satellite, navigation aid, cosmic triangulation, space coordinate system, cartography, /NAFA 3c/25c camera

ABSTRACT: The authors discussed the means and advantages of using the ECHO - 1 artificial earth satellite in the carrying out of cosmic triangulation. The principles involved were explained with reference to the schematic shown (see Fig. 1 on the Enclosure), wherein A and B are terrestrial observation stations with known coordinates. With stars in the background of the satellite at position S', both stations make simultaneous observations along sight lines AS' and BS', thus permitting solution of triangle AS'B and locating the satellite's position. If by similar means the position of the satellite is established at position S" and simultaneously the satellite is observed from a third station N, then the location of station N can be fixed by solution of triangle S'NS".

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